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We desire to secure the additional services of one lady in every village weekly. This year we will be glad to receive applications from any lady who has had much experience. Address to PRATT BROTHERS.

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Will you for this paper send us any address? till Jan. 1, next. If you are not pleased with our paper, we will be glad to receive your name. You will be interested in the local news.

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In every village there are words like this paper circulates, to take the money for the regular weekly sale of the same. Only limited time will be required each week, and a small sum of profit and a permanent job guaranteed right about your home for faithful service in this line. Write this office for full particulars.

RELIGIOUS DEPARTMENT.

Edited by REV. A. F. NEWTON.

The Sunday School.

Topic for the quarter—Wisdom Billing. Lesson for Dec. 7, 1848—Prov. 30: 20-33.

DRUNKEN TAX.—Be not among winebibbers.—Prov. 23: 21.

THE OLD STORY CONTINUED.

We are writing the old story, the old story of Al-
ice Cheshire. We have just received from
the author a copy of the first volume, and the
following facts came to our knowledge. One
business man had two of his workers come in
to work the worse for liquor. One of them still
staggering. Poor fellow! His wife used to keep him
in sober, but since her death he has been
drunken.

The nose of the other was fayed last night.

What a condition for work the day after a
holiday.

A farmer told us he received paid his
wages. Every dollar was squandered in one of our licensed liquor saloons. A few
days after the laborer's wife came to a farm
begging him for money to buy bread. All
dropped. One dollar a bottle, addressed Dr.
David Kennedy, Boston, Mass.

The Harlem Railroad

Valuable Sugg's of Interest to Me Enclosed

on the Railroads. Read it, if you can.

ARTHUR'S ILLUSTRATED HOME MAGAZINE.

For choice reading, richly illustrated, beauti-

fully bound, and with character. **ARTHUR'S**

MAGAZINE OF CHILD READING.

The beginning it has been our effort, in reach-

ing through this Magazine the houses of the

poor, since the time of the Poor Magazine.

DAVID KENNEDY'S FAVORITE REMEDY.

As well as Indigestion. Read the following from

Dr. David Kennedy's Paper Mill.

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DAVID KENNEDY'S FAVORITE REMEDY.

Labor, Wealth and Pride.
Said Wealth to Pride once pleasant morn,
While moving onward on the train.
"I think it's time I went to bed."
The world would strive to move in vain.
"Those words, sir, Wealth is apt and just,"
Said Pride; "if we should cease to be,
The world would soon consume with rust,
Since it is moved by you and me."

New Labor heard these boastings vain,
And said he: "Well see who moves this train."

So down he sat by Wealth and Pride,

But Pride turned up her haughty nose,

Her cousin Wealth looked somewhat black,

And now a greater wealth was born.

"Wealth is still the master in the track."

To his work, "said Wealth and Pride,

Persuading soon their hard road case,

Wealth twitted his mouth from side to side,

While pride grew prouer in the face.

But a word about Labor said,

He labored in calm peace,

Until pride like a lion leaped

And bade down her haughty nose.

And then with half-crazed men

He came rash and took his place,

The ponderous wheels revolved again,

The train resumed its wisted pace.

Now comes the day,

And how low is Wealth and Pride,

For the track they've passing over,

The world's the train on which ride.

—STEPHEN SATIE.

The Utilization of Sewage.

At recent meeting of the Mass. State Board of Agriculture at Great Barrington the first paper read was by Dr. Henry J. Barnes of Boston, who has made a special study of water supply (in relation to its purity) and drainage. The subject of his essay was "The Utilization of Sewage," or its employment in irrigation and agriculture. In introducing the subject he spoke of the great was going on all over the world is this matter, by which the ocean is made the repository of the substances which might become the wealth of nations; or the opposition to its use among farmers, explaining in this connection why sewage often loses its value by filtration and decomposition in drains and cesspools; of the sewer questions now agitating the principal capitals of the world; of London's \$3,000,000 failure, and Boston's folly at Moon Island; of the mingling of sewage with drinking water at Chicago and in Boston; of the methods of gathering sewage, mentioning highly the pneumatic system and the bucket system of China; of the different ways of disposing of sewage on land, with descriptions of experiments in many of the cities of Europe, especially at the Paris suburb of Gennevilliers, and at Palman, Ill., in this country. From the latter portion of the address the following extracts are given:

Sanitation.—From a sanitary point of view, there are no objections, and many advantages to be derived from this system. At Ware, in Herefordshire, is situated the celebrated Ryde House, close by a sewage farm. The summer house, known as Retailers' Hall is separated from the farm only by the boards of which it is constructed.

The farmer, who spends but a portion of the year at the farmhouse, in the center of the frigid field, says the only annoyance he experiences is the increasing appetite of his family.

At Ruthin, in North Wales, the railroad track separates the sewage farm from the station of the Northwest railroad, and the town is not more than 300 or 400 yards from the irrigated sewage. Dr. Frankland, the prince of chemists, wrote in May, 1851: "There are in nature powerful agents for the destruction of disease. It cannot be doubted; otherwise the human race would long ago have been exterminated. The problem is not entirely solved, but experience appears to demonstrate this action on sewage employed in irrigation; for when known to be infected by cholera and typhoid fever in England, it never produced these diseases in the inhabitants living on the sewage farm and consuming the produce. A system indeed advocated by such names as Virchow, Liebig, Pasteur, Schlesinger, and Marie, Dr. Frankland, and Carpenter posees a guarantee unquestionable."

Transportation.—In constructing a sewerage system, the town or city pays the costs of transportation, for of necessity it must be built to discharge somewhere, and ordinarily it would be no more expensive to discharge on neighboring farms than into a river or bay. Many places are obliged to elevate their sewerage with pumps before it is finally disposed of. It would be just as cheap to pump it on the land. A commission appointed some time since by the Parisian government stated that "irrigation is the most economic and efficacious means of conveying to plants the fertilizing matter of sewage." Delivered at a favorable point, no elaborate system is necessary for its utilization. A cemented reservoir with Akron pipes, which will sustain pressure of two atmospheres, and gates to govern and direct the flow to the open ditches, is all that is necessary. How might be substituted for the Akron pipes. On a light, sandy soil, subsoil drains for the effluent water are unnecessary. The sewage is best carried in shallow ditches a few inches deep, and elevated slightly above the level of the field. A plough will do the entire construction, making what is known as the "doukoye" system. Elevated open ditches, having a fall of about an inch in 1600 feet, 10 feet apart, and sloping banks, one inch to the foot, on which is the vegetation. The use should in all cases be intermittent while the crop is growing, and the oxen of the air current, which periodically pass through it, a chance to breathe, as it were. In winter, when vegetation slumbers, it may flow freely over the land, when the fertilizing properties will accumulate without loss at or near the surface.

Bahut du Marais claims that sewage in freezing eliminates these properties as completely as salt water does salt in the same process, and thus evaporation is as perfect in winter as in summer. The highly productive farms of Holland are entirely submerged during winter. The year after last he captured the silver cup, until finally ruled out from competition. Supt. Hart of the Pullman farm writes me that "last year the farm paid over 6 per cent on the money invested (\$30,000), and this year he hopes to do better." The soil does not clog where regular and systematic irrigation is employed. The thin skin of deposit when dried, shrinks, cracks and breaks up, the organic matter decays, and becomes food for vegetation, and thus the soil becomes more light and porous, as is noticed after a rainfall. Bullock has irrigated with sewage 15 hectares for two and a half centuries, without diminishing the permeability of the land, or my other deleterious result.

Favorable soils.—The most favorable soil for irrigation is a sandy loam, underlaid by coarse sand or gravel. This does not require subsoil drainage. Other soils, containing a proportion of clay, will absorb less liquid, but by under draining will take care of a good amount. Stiff clay soils crack deep, when dried after a dose of liquid, and are therefore not useful for irrigation. The sewage should not come in contact with the foliage of the plants. Tannin is said to be extremely prevalent in North China, caused by this habit of emptying faecal matter on the leaves of vegetation, and the eggs of this animal are thus taken from one individual to be propagated in another. Other diseases would be liable to a similar mode of transmission.

Temperature of sewage.—Our winter climate is often raised as an objection to the employment of sewage in irrigation. The facts do not warrant this assumption, for at Pullman, Ill., evaporation takes place, well in winter as in summer. At Danvers, where the mean-winter temperature is about that of our own, the soil freezes four feet deep, and the Visalia is frozen over from the middle of November to March, the temperature of the sewage at the mouth of the sewer never goes below 37 deg. Fahr. The temperature of sewage is always above the freezing-point when underground, and where it comes to the surface it melts the snow and ice, so that it finds its way readily into the earth. At times a thin skin of ice forms, and there was an entire absence of efflorescence.

In towns the sewerage system should be constructed with the final object of discharging on favorable soil, for the time is fast approaching when this system must be adopted in this country. The laws enacted last winter by our Legislature will ultimately compel the withdrawal of sewage from rivers and ponds as the policy of the state appears in favor of the abandonment of natural water-courses for sewage purposes. In the mean time the state could well afford to demonstrate by experiment what crops are, in our climate, best adapted to irrigation, and how abundantly the soil can be developed advantageously. With these questions settled, there is no doubt plenty of land would be found in the state to utilize all the sewage. There are in England 200 cities and towns disposing of sewage by irrigation, most of which systems have been established in the past 10 years. No other system shows such a growth. If land can be found, valuable on each of the soil of Massachusetts. Farmers in Arlington pay the town \$150 a year for filtered water employed in their gardens, and many are unable to get sufficient town water, and have erected expensive windmills to raise water for the purpose. The alternate sowing and drying render the soil lighter, more porous and warmer, and consequently it will produce earlier crops. The early green patches of grass about sprouts are a familiar illustration. On the 19th of last April, Virchow visited the sewage farms of Edburgh.

From an eminence could be seen the line of demarcation separating the 250 acres from the surrounding territory.

The fresh green verdure of the farm where the first cutting of grass had already begun, was in striking contrast to the brown fields outside, with nothing in their appearance to indicate the approach of spring. J. Bailey Denton estimates the loss of water by evaporation on irrigated lands in England to be equal to one-half of the entire amount used. There the yearly average is about 1000 tons per acre.

A cemented reservoir with Akron pipes, which will sustain pressure of two atmospheres, and gates to govern and direct the flow to the open ditches, is all that is necessary. How might be substituted for the Akron pipes. On a light, sandy soil, subsoil drains for the effluent water are unnecessary. The sewage is best carried in shallow ditches a few inches deep, and elevated slightly above the level of the field. A plough will do the entire construction, making what is known as the "doukoye" system.

Elevated open ditches, having a fall of about an inch in 1600 feet, 10 feet apart, and sloping banks, one inch to the foot, on which is the vegetation. The use should in all cases be intermittent while the crop is growing, and the oxen of the air current, which periodically pass through it, a chance to breathe, as it were.

In winter, when vegetation slumbers, it may flow freely over the land, when the fertilizing properties will accumulate without loss at or near the surface.

Teach me the Way.

Teach me the way! I long to come to thee, The path is wide and steep my feet to stir; A short respite, a welcome bedding I see; But now thy face I see!

Teach me the way!

They alone can bring the light I crave, How plain the path will seem beneath its ray; They are glad to find a way to use, Water and manure do not go far astray.

Teach me the way.

I hear thus say, "Come unto me and rest," The sweet command with joy I would obey;

I long to lay my weary head upon thy breast, Help me to come safe Lord!

Teach me the way.

J. E. WADDELL.

Fifteen different machines are used in the manufacture of soap, which are all alike in their operation, but differ in the quality of the product. The soap is made in large quantities, and is sold in boxes, which are usually sent to market in small packages.

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